WHAT IS CLAIMED IS:

1. A solid state image pickup device, comprising:

solid state image pickup means for optically reading an image and converting the image into an electrical image signal;

memory means for storing a smear reference amount of the solid state image pickup means; and

calculation means for calculating a physical amount proportional to a received light amount of the solid state image pickup means based on an output of the electrical image signal from the solid state image pickup means,

wherein the electrical image signal is corrected based on the smear reference amount stored in the memory means and an output of the calculation means.

2. A solid state image pickup device according to claim 1, wherein the smear reference amount is acquired by calculating based on a smear amount and the physical amount proportional to the received light amount when a light source is turned on.

3. A solid state image pickup device according to claim 1, wherein the smear reference amount is acquired by dividing a smear amount by the physical

amount proportional to the received light amount when a light source is turned on.

4. A solid state image pickup device according to claim 2 or 3, wherein the smear amount is a dummy pixel output value when the light source is turned on.

5. A solid state image pickup device according to claim 2 or 3, wherein the smear amount is an average value of dummy pixel output values when the light source is turned on.

6. A solid state image pickup device according to claim 2 or 3, wherein the smear amount is acquired by subtracting one of an optical black pixel output value and an pixel output value of an image taking region when the light source is turned off, from an optical black pixel output value when the light source is turned on.

7. A solid state image pickup device according to claim 2 or 3, wherein the smear amount is acquired by subtracting one of an average value of optical black pixel output values and an average value of pixel output values of the image taking region when the light source is turned off, from an average value of optical black pixel output values when the light

source is turned on.

8. A solid state image pickup device according to claim 1, wherein the physical amount proportional to the received light amount is one of a sum and an average value of pixel outputs of the image taking region of the solid state image pickup means.

9. A solid state image pickup device according to claim 1, wherein the solid state image pickup means includes a CCD linear sensor.

10. A method of correcting a smear of a solid state image pickup device, comprising the steps of:

storing a smear reference amount of the solid state image pickup means in memory means;

reading an image signal by a solid state image pickup element;

calculating a physical amount proportional to an amount of received light of the solid state image pickup means based on an output of the electrical image signal from the solid state image pickup means; and

correcting the electrical image signal read based on the smear reference amount stored in the memory means and an output based on the calculated result.

11. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the storing step comprises a step of calculating a smear reference amount based on a smear amount and the physical amount proportional to the received light amount when a light source is turned on.

12. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the storing step comprises a step of dividing the smear amount by the physical amount proportional to the received light amount when the light source is turned on.

13. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the storing step comprises a step of calculating an average value of outputs of dummy pixels generated when the light source is turned on.

14. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the storing step comprises a step of subtracting one of an optical black pixel output value and a pixel output value of the image taking region when the light source is turned off, from an

optical black pixel output value when the light source is turned on.

15. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the storing step comprises a step of subtracting one of an average value of optical black pixel output values and an average value of pixel output values of the image taking region when the light source is turned off, from an average value of optical black pixel output values stored after the light source is turned on.

16. A method of correcting a smear of a solid state image pickup device according to claim 10, wherein the reading step comprises a step of calculating one of a sum and an average value of pixel outputs of the image taking region of the solid state image pickup means.

17. A recording medium that stores the procedure of smear correction according to any one of claims 10 to 16.